

Exhibit 1

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| <p>1 BY MR. BOYEA: 9:39AM</p> <p>2 Q And is your testimony that you only have</p> <p>3 vague knowledge of casting?</p> <p>4 MR. KAPLAN: Object to form, misstates</p> <p>5 testimony. 9:39AM</p> <p>6 THE WITNESS: My answer was in particular</p> <p>7 to these steps that are in front of me.</p> <p>8 BY MR. BOYEA:</p> <p>9 Q Okay. Let's move on to starting at</p> <p>10 Line 10 of that same page that you're looking at. 9:39AM</p> <p>11 There is discussion of, quote/unquote,</p> <p>12 stream transfer a feature that Google refers to as</p> <p>13 "stream transfer."</p> <p>14 Are you familiar with stream transfer?</p> <p>15 A Can you clarify what "stream transfer" is 9:39AM</p> <p>16 exactly?</p> <p>17 Q If you could read what is set forth their</p> <p>18 starting at Lines 14, this is Google's own</p> <p>19 documentation referring to stream transfer.</p> <p>20 Go ahead and give that a read and let me 9:40AM</p> <p>21 know if you're familiar with what stream transfer</p> <p>22 is.</p> <p>23 A Line 14 references a blog.</p> <p>24 Q Yes.</p> <p>25 A Do you want me to read that? 9:40AM</p> <p style="text-align: right;">Page 22</p> | <p>1 for this topic for four different apps. 9:42AM</p> <p>2 So we'll just put that objection in and</p> <p>3 we'll resolve that off the record.</p> <p>4 Q So, Mr. Mo, if you turn to the following</p> <p>5 page, you'll see starting at Line 5 through 8 there 9:42AM</p> <p>6 is some discussion of an "up next" feature and an</p> <p>7 "autoplay" feature.</p> <p>8 Let me know once you're there.</p> <p>9 A I'm there.</p> <p>10 Q Can you go ahead and review the screenshot 9:42AM</p> <p>11 that starts at Line 10?</p> <p>12 A Okay. I've seen that screenshot.</p> <p>13 Q Are you familiar with the feature that</p> <p>14 Google refers to as "up next"? And specifically up</p> <p>15 next suggests additional content based on whatever 9:43AM</p> <p>16 you're currently watching.</p> <p>17 Are you familiar with that feature?</p> <p>18 A I have seen the feature.</p> <p>19 Q You've seen the feature.</p> <p>20 Are you going to be able to me how the up 9:43AM</p> <p>21 next feature is implemented in Google's system?</p> <p>22 A No, I'm not able to.</p> <p>23 MR. BOYEA: All right. Sonos is going to</p> <p>24 object once again because Mr. Mo is designated on</p> <p>25 this topic for four different YouTube apps. 9:43AM</p> <p style="text-align: right;">Page 24</p> |
| <p>1 Q There is a screenshot below starting at 9:40AM</p> <p>2 Line 15, if you could read that screenshot that</p> <p>3 refers to "stream transfer." Read it to yourself</p> <p>4 and let me know if you're familiar with what is</p> <p>5 being referred to as a stream transfer feature. 9:40AM</p> <p>6 A What lines should I stop reading?</p> <p>7 Q What lines did you read?</p> <p>8 A Fourteen through 23.</p> <p>9 Q I think that's sufficient.</p> <p>10 Are you familiar with the stream transfer 9:41AM</p> <p>11 feature that's referred to in those lines?</p> <p>12 A I have heard of the word "stream transfer."</p> <p>13 Q You've heard of it.</p> <p>14 Are you familiar with the functionality</p> <p>15 that enables that feature to be used by a user? 9:41AM</p> <p>16 MR. KAPLAN: Object to form.</p> <p>17 THE WITNESS: Can you clarify what do you</p> <p>18 mean by being familiar with?</p> <p>19 BY MR. BOYEA:</p> <p>20 Q Are you going to be able to tell me how 9:41AM</p> <p>21 that feature is actually implemented?</p> <p>22 A I'm not. I do not know how stream transfer</p> <p>23 works underneath the...</p> <p>24 MR. BOYEA: Okay. So Sonos is going to</p> <p>25 object obviously, Marc, because Mr. Mo is designated 9:42AM</p> <p style="text-align: right;">Page 23</p> | <p>1 MR. KAPLAN: Well, very quickly, Mr. Mo is 9:43AM</p> <p>2 designated on these topics as they relate to casting</p> <p>3 functionality for four different apps.</p> <p>4 MR. BOYEA: Yes, I understand that. They</p> <p>5 are part and parcel of one another. 9:44AM</p> <p>6 But we'll have to figure this out off the</p> <p>7 record. So --</p> <p>8 MR. KAPLAN: You can object now, but I</p> <p>9 think as we get into questions, I think some of this</p> <p>10 is going to be sorted out. So let's continue and 9:44AM</p> <p>11 short circuit any questions on sort of functionality</p> <p>12 as to these topics.</p> <p>13 MR. BOYEA: Marc, but you know you guys</p> <p>14 designated him for all of these topics for four</p> <p>15 different apps. I'm going to have a very short 9:44AM</p> <p>16 amount of time to ask him questions and I'm having</p> <p>17 to spend this time being told that he doesn't know</p> <p>18 information regarding these topics.</p> <p>19 So I'm going to have to prioritize what I</p> <p>20 ask because he's telling me he doesn't know about 9:44AM</p> <p>21 these features.</p> <p>22 MR. KAPLAN: He knows about cast. That's</p> <p>23 what he's been designated on. I think if you ask</p> <p>24 those questions that you had planned to ask for</p> <p>25 cast, then we're going to cover these topics 9:45AM</p> <p style="text-align: right;">Page 25</p> |

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| <p>1 sufficiently. 9:45AM</p> <p>2 But please continue.</p> <p>3 BY MR. BOYEA:</p> <p>4 Q Mr. Mo, if you look at the bottom of the</p> <p>5 page that you're at, there is another screenshot 9:45AM</p> <p>6 called "Autoplay videos."</p> <p>7 Do you see that?</p> <p>8 A I see the section. Is there a screenshot</p> <p>9 that you wanted me to look at?</p> <p>10 Q Yes. It starts at Line 24, 25. There is 9:45AM</p> <p>11 a screenshot that's titled "Autoplay videos."</p> <p>12 A Okay. I see it.</p> <p>13 Q Are you familiar with the autoplay feature</p> <p>14 being described in this screenshot?</p> <p>15 A The screenshot being the text about 9:45AM</p> <p>16 autoplay?</p> <p>17 Q Yes, exactly.</p> <p>18 A Without the context of which this text is</p> <p>19 from, it's hard to know which specific context</p> <p>20 autoplay is for. 9:46AM</p> <p>21 Q So it describes here in the screenshot,</p> <p>22 "The autoplay feature on YouTube."</p> <p>23 So are you familiar with the autoplay</p> <p>24 feature on YouTube?</p> <p>25 A I'm aware of it. 9:46AM</p> <p style="text-align: right;">Page 26</p> | <p>1 casting. 9:48AM</p> <p>2 Q Yes. So before casting.</p> <p>3 A Before casting, I'm not familiar with</p> <p>4 autoplay.</p> <p>5 Q And what about after casting, are you 9:48AM</p> <p>6 familiar with autoplay?</p> <p>7 A It depends on which -- I would need you to</p> <p>8 clarify again where -- what part of the YouTube</p> <p>9 experience you're referring to.</p> <p>10 Q I'm not sure I know what other context I 9:48AM</p> <p>11 need to give you.</p> <p>12 So in the context of casting YouTube to a</p> <p>13 receiver device, are you familiar with how the</p> <p>14 autoplay feature is implemented?</p> <p>15 A On which device? 9:49AM</p> <p>16 Q Are there multiple devices that autoplay</p> <p>17 would be implemented on?</p> <p>18 A Yes, depending on the context once again.</p> <p>19 Q In the context of casting YouTube to a</p> <p>20 receiver, what other context do you need to know to 9:49AM</p> <p>21 be able to answer my question?</p> <p>22 A Just which client do you want to know about</p> <p>23 autoplay for that particular use case?</p> <p>24 Q When you say "client," what do you mean by</p> <p>25 the term "client"? 9:49AM</p> <p style="text-align: right;">Page 28</p> |
| <p>1 Q Are you going to be able to explain how 9:46AM</p> <p>2 the autoplay feature is implemented on the YouTube</p> <p>3 apps?</p> <p>4 A Which YouTube app specifically?</p> <p>5 Q Let's start with the YouTube main app or 9:46AM</p> <p>6 just the YouTube app.</p> <p>7 Are you familiar with how the autoplay</p> <p>8 feature is implemented in that app?</p> <p>9 MR. KAPLAN: Object to form.</p> <p>10 THE WITNESS: Is there a specific context 9:47AM</p> <p>11 within which the app is used?</p> <p>12 BY MR. BOYEA:</p> <p>13 Q Whether it's casting or not casting.</p> <p>14 MR. KAPLAN: Object to form.</p> <p>15 THE WITNESS: So you're asking 9:47AM</p> <p>16 specifically about apps on a particular surface?</p> <p>17 BY MR. BOYEA:</p> <p>18 Q I'm asking -- yes, let's start with when</p> <p>19 YouTube is being run on a phone, for instance, are</p> <p>20 you familiar with how the autoplay feature is 9:47AM</p> <p>21 implemented?</p> <p>22 A I need more specific context in addition to</p> <p>23 that.</p> <p>24 Q What else, what other context do you need?</p> <p>25 A Whether it's related -- whether it's during 9:48AM</p> <p style="text-align: right;">Page 27</p> | <p>1 A Sender or receiver. 9:49AM</p> <p>2 Q So we're going to get into some</p> <p>3 terminology, so maybe this is good.</p> <p>4 Can you explain to me what you mean by</p> <p>5 "sender"? 9:50AM</p> <p>6 A Sender is what I refer to as YouTube client</p> <p>7 such as a mobile device where a user may cast from.</p> <p>8 The receiver device, the receiver client</p> <p>9 is the device for the client that the user is</p> <p>10 casting to. 9:50AM</p> <p>11 Q Okay. And in this context I want to make</p> <p>12 sure I understand what the receiver is. Is that in</p> <p>13 a Chromecast device?</p> <p>14 A That can be one.</p> <p>15 Q Okay. And would that -- would a receiver 9:50AM</p> <p>16 be any Nest Smart speaker?</p> <p>17 A Yes. Some Nest speakers are considered to</p> <p>18 be a receiver device.</p> <p>19 Q You said, "Some Nest speakers are</p> <p>20 considered to be speaker devices." 9:51AM</p> <p>21 What Nest speakers are not considered</p> <p>22 receiver devices?</p> <p>23 A I don't know off the top of my head.</p> <p>24 Q So are you able to think of any Nest</p> <p>25 speaker that would not be considered a receiver 9:51AM</p> <p style="text-align: right;">Page 29</p> |

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| <p>1 device? 9:51AM</p> <p>2 A Not that I am aware of right now.</p> <p>3 Q So would you agree with me that a Nest</p> <p>4 Mini, Nest Audio, Nest Hub and Nest Hub Max would be</p> <p>5 considered a receiver device? 9:52AM</p> <p>6 MR. KAPLAN: Object to form.</p> <p>7 THE WITNESS: When they are being used in</p> <p>8 casting, yes.</p> <p>9 BY MR. BOYEA:</p> <p>10 Q Would you agree with me that a Home Mini, 9:52AM</p> <p>11 Home, Home Max and Home Hub are considered to be</p> <p>12 receiver devices when used in casting?</p> <p>13 A Yes, I would refer to those as receiver</p> <p>14 devices.</p> <p>15 Q I know you said yes to Chromecast earlier, 9:52AM</p> <p>16 but would a Chromecast, Chromecast Audio, Chromecast</p> <p>17 Ultra and Chromecast with Google TV be considered a</p> <p>18 receiver in casting?</p> <p>19 A Yes, they can be referred to as receivers.</p> <p>20 Q And then what about the Nest WiFi Point, 9:53AM</p> <p>21 would that be considered a receiver when casting?</p> <p>22 A I'm aware of one Nest WiFi that can act as a</p> <p>23 receiver device.</p> <p>24 Q And is that the Nest WiFi Point?</p> <p>25 A I'm not familiar with the actual names, the 9:53AM</p> <p style="text-align: right;">Page 30</p> | <p>1 THE WITNESS: Sorry about that. 9:56AM</p> <p>2 MR. BOYEA: No problem.</p> <p>3 Q So I asked previously: What code have you</p> <p>4 written that deals with casting?</p> <p>5 A Do you have any specifics in mind? Since 9:56AM</p> <p>6 that's pretty broad.</p> <p>7 Q Sure. You mentioned sender and receiver</p> <p>8 before. So let me start with: Have you written</p> <p>9 sender side code for casting?</p> <p>10 A For YouTube on the YouTube clients. 9:56AM</p> <p>11 Q And when you say "for YouTube," are you</p> <p>12 referring specifically to the YouTube main app or</p> <p>13 more generally to the YouTube apps that I understand</p> <p>14 there are four -- at least four different YouTube</p> <p>15 apps? 9:57AM</p> <p>16 MR. KAPLAN: Object to form.</p> <p>17 THE WITNESS: What are the four YouTube</p> <p>18 apps once again?</p> <p>19 BY MR. BOYEA:</p> <p>20 Q So you're familiar with the YouTube main 9:57AM</p> <p>21 app; correct?</p> <p>22 A I am, yes.</p> <p>23 Q And that's typically more generally just</p> <p>24 referred to as the YouTube app; isn't that right?</p> <p>25 A That can be the case, yes. 9:57AM</p> <p style="text-align: right;">Page 32</p> |
| <p>1 official names. 9:53AM</p> <p>2 Q Okay. So you used the term "sender"</p> <p>3 before. Are you familiar with the Nest Hub devices?</p> <p>4 A Yes, I've heard of Nest Hubs.</p> <p>5 Q Is a Nest Hub device, can it be considered 9:53AM</p> <p>6 a sender when casting?</p> <p>7 A No. I don't -- I would not refer to it as a</p> <p>8 sender.</p> <p>9 Q Okay. So I'm going to get back to these</p> <p>10 topics that you've been designated for. 9:54AM</p> <p>11 Now, are you familiar with the source code</p> <p>12 that enables the casting functionality in Google's</p> <p>13 products?</p> <p>14 A Can you please speak more specific?</p> <p>15 Q Sure. Have you -- do you write source 9:55AM</p> <p>16 code for the casting functionality?</p> <p>17 A Yes, I have written code that deals with</p> <p>18 casting.</p> <p>19 Q And what code have you written that deals</p> <p>20 with casting? 9:55AM</p> <p>21 A I'm sorry, something triggered within my</p> <p>22 house that is playing sound. Can I disable that?</p> <p>23 Q Yes. Go ahead.</p> <p>24 A Okay.</p> <p>25 MR. KAPLAN: Too many smart devices. 9:55AM</p> <p style="text-align: right;">Page 31</p> | <p>1 Q And you're familiar with the YouTube Music 9:57AM</p> <p>2 app; correct?</p> <p>3 A I'm aware of the YouTube Music app.</p> <p>4 Q And you're aware of the YouTube Kids app;</p> <p>5 correct? 9:57AM</p> <p>6 A Yes.</p> <p>7 Q And you're aware of the YouTube TV app;</p> <p>8 correct?</p> <p>9 A Can you also -- is there a specific device</p> <p>10 of which these apps went on as well? 9:58AM</p> <p>11 Q You know, you might have cut out in the</p> <p>12 middle of that question. Can you just repeat it?</p> <p>13 A I was asking you to clarify if there are</p> <p>14 certain devices of which these apps are running on</p> <p>15 that you're asking about. 9:58AM</p> <p>16 Q At this point I'm just trying to -- you</p> <p>17 asked me to go over the four YouTube apps with you,</p> <p>18 agnostic to what they are running on. The last one</p> <p>19 I'm asking about is the YouTube TV app. I'm just</p> <p>20 making sure you have an understanding of the four 9:58AM</p> <p>21 YouTube apps I'm referring to?</p> <p>22 A I am aware of those products, yes.</p> <p>23 Q When I refer to the YouTube apps in this</p> <p>24 deposition, I want you to understand that those are</p> <p>25 the four YouTube apps that I am referring to. 9:58AM</p> <p style="text-align: right;">Page 33</p> |

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| <p>1 A Okay. 9:58AM</p> <p>2 Q You previously said that you haven't</p> <p>3 written sender side code for YouTube on YouTube</p> <p>4 clients.</p> <p>5 My follow-up question to that is: The 9:59AM</p> <p>6 YouTube code that you've written, is it for one of</p> <p>7 these -- one of the four YouTube apps or is it for</p> <p>8 multiple of them?</p> <p>9 A The code I've written, it can be for -- it</p> <p>10 can be for any YouTube clients that want the sender 9:59AM</p> <p>11 features, sender capability.</p> <p>12 Q Have you -- sorry, I didn't mean to</p> <p>13 interrupt you.</p> <p>14 Have you written code for the receiver</p> <p>15 side of casting YouTube? 10:00AM</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 Q Is there a -- let me strike that. I'll</p> <p>23 return to that question later.</p> <p>24 So I want to shift gears just a little bit</p> <p>25 and ask you what you did to prepare for the 10:00AM</p> <p style="text-align: right;">Page 34</p> | <p>1 A I don't know. 10:02AM</p> <p>2 Q What was Ruth's last name?</p> <p>3 A I actually don't have -- I don't know from</p> <p>4 the top of my head.</p> <p>5 Q Was there anyone else that was at the 10:02AM</p> <p>6 meeting?</p> <p>7 A Yes.</p> <p>8 Q Who else?</p> <p>9 A Neema.</p> <p>10 Q Anyone else? 10:02AM</p> <p>11 A Marc.</p> <p>12 Q Anyone else?</p> <p>13 A Patrick.</p> <p>14 Q Is Patrick, what was his last name?</p> <p>15 A I don't, again, recall right now. 10:03AM</p> <p>16 Q Anybody else?</p> <p>17 A Met with Chaoren Li.</p> <p>18 Q Could you spell that for the record?</p> <p>19 A Yes, C-H-A-O-R-E-N, L-I.</p> <p>20 Q Who is Chaoren Li? 10:03AM</p> <p>21 A He is an engineer.</p> <p>22 Q Is he an engineer at Google?</p> <p>23 A Yes.</p> <p>24 Q What is his role at Google?</p> <p>25 A He is an engineer at YouTube. 10:04AM</p> <p style="text-align: right;">Page 36</p> |
| <p>1 deposition today. 10:01AM</p> <p>2 Let me first start by asking: Did you</p> <p>3 have any meetings in preparation for your deposition</p> <p>4 today?</p> <p>5 MR. KAPLAN: You can answer that yes or 10:01AM</p> <p>6 no.</p> <p>7 THE WITNESS: Yes.</p> <p>8 BY MR. BOYEA:</p> <p>9 Q When did those meetings take place?</p> <p>10 A Yesterday. 10:01AM</p> <p>11 Q Other than the meeting yesterday, did you</p> <p>12 have any other meeting in preparation for the</p> <p>13 deposition today?</p> <p>14 A No.</p> <p>15 Q How long was the meeting yesterday? 10:01AM</p> <p>16 A It was around eight hours.</p> <p>17 Q Who was present at that meeting?</p> <p>18 A Mishima was one of them.</p> <p>19 Q Anyone else?</p> <p>20 A Ruth. 10:01AM</p> <p>21 Q Who is Ruth?</p> <p>22 A She is a legal person from Google.</p> <p>23 Q So Google in-house; is that correct?</p> <p>24 A I don't know how to differentiate the terms.</p> <p>25 Q Is Ruth a lawyer? 10:02AM</p> <p style="text-align: right;">Page 35</p> | <p>1 Q Does he work on sender devices? 10:04AM</p> <p>2 A I don't know how to answer that. From the</p> <p>3 top of my head, I don't know.</p> <p>4 Q So you understand that Mr. Li works on</p> <p>5 YouTube, but you don't know if he works on sender 10:04AM</p> <p>6 devices. Is that fair?</p> <p>7 A I can't answer how much or little experience</p> <p>8 he has had on the sender side.</p> <p>9 Q Was there anybody else that was at the</p> <p>10 meeting? 10:04AM</p> <p>11 A Yes.</p> <p>12 Q Who?</p> <p>13 A Andreas.</p> <p>14 Q Can you spell that for the record?</p> <p>15 A A-N-D-R-E-A-S. 10:05AM</p> <p>16 Q Is that a first or last name?</p> <p>17 A I believe it's his first.</p> <p>18 Q Do you have a last name for Andreas?</p> <p>19 A No. Not from memory.</p> <p>20 Q And who is Andreas? 10:05AM</p> <p>21 A He's a YouTube engineer.</p> <p>22 Q Is there a specific subject matter within</p> <p>23 YouTube that Andreas deals with?</p> <p>24 A I know that he has at least worked on</p> <p>25 [REDACTED] 10:06AM</p> <p style="text-align: right;">Page 37</p> |

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| <p>1 Q And what is [REDACTED] 10:06AM</p> <p>2 A [REDACTED]</p> <p>4 Q When you say [REDACTED] is that a</p> <p>5 cloud service? 10:06AM</p> <p>6 A Yes.</p> <p>7 Q Is the YouTube -- strike that.</p> <p>8 Is the [REDACTED] used with all four</p> <p>9 of the YouTube apps?</p> <p>10 A I don't know. I don't know if all four use 10:06AM</p> <p>11 [REDACTED].</p> <p>12 Q Was there anybody else that was present at</p> <p>13 the meeting yesterday?</p> <p>14 A Not that I remember right now.</p> <p>15 Q Did you review any documents during the 10:07AM</p> <p>16 meeting?</p> <p>17 MR. KAPLAN: Object to form. I have to</p> <p>18 give a quick instruction on privilege here. I think</p> <p>19 the question is a little too broad.</p> <p>20 You can answer whether documents that you 10:07AM</p> <p>21 reviewed refreshed your recollection or taught you</p> <p>22 information subject to the 30(b)(6) topics.</p> <p>23 BY MR. BOYEA:</p> <p>24 Q Sorry, you cut out there.</p> <p>25 A Can you rephrase that question? 10:08AM</p> <p style="text-align: right;">Page 38</p> | <p>1 knowledge regarding a pixel device or the like 10:09AM</p> <p>2 receiving and playing a sequence of media items in</p> <p>3 connection with running one of the YouTube apps?</p> <p>4 A That can be -- that can be vague. If you</p> <p>5 can -- if you can refine the use case even more. 10:10AM</p> <p>6 Q Sure. You agree with me that any of the</p> <p>7 YouTube apps can run on a phone; correct?</p> <p>8 A What kind of phone, specifically?</p> <p>9 Q How about an Android phone? Are there</p> <p>10 Android phones that run the YouTube apps? 10:10AM</p> <p>11 A Yes.</p> <p>12 Q And are there iOS or Apple phones that run</p> <p>13 the YouTube apps?</p> <p>14 A Yes.</p> <p>15 Q So in that context, whether it's Android 10:10AM</p> <p>16 or iOS, are you familiar with how the YouTube app</p> <p>17 would run on the phone?</p> <p>18 A Sorry, that's still vague in terms of just</p> <p>19 YouTube app running on a phone.</p> <p>20 Q Let me strike it then. 10:11AM</p> <p>21 How about with respect to a user playing</p> <p>22 back YouTube content on an Android or iOS phone?</p> <p>23 A I have some knowledge.</p> <p>24 Q Okay. So let's start with do you agree</p> <p>25 with me that every device that can run a YouTube app 10:11AM</p> <p style="text-align: right;">Page 40</p> |
| <p>1 Q Yes. The question was: Did you review 10:08AM</p> <p>2 any documents during your meeting yesterday?</p> <p>3 MR. KAPLAN: And the instruction is you</p> <p>4 can answer with respect to documents that refreshed</p> <p>5 your recollection and with respect to any documents 10:08AM</p> <p>6 that may have prepared you on the topics and taught</p> <p>7 you information for those 30(b)(6) topics. Okay?</p> <p>8 THE WITNESS: I did not go over any</p> <p>9 documents that taught me new things.</p> <p>10 BY MR. BOYEA: 10:08AM</p> <p>11 Q Did you go over any documents that</p> <p>12 refreshed your recollection about the testimony that</p> <p>13 you would be giving today?</p> <p>14 A No.</p> <p>15 Q So I want to begin with talking about 10:08AM</p> <p>16 playing back YouTube at a sender device.</p> <p>17 Do you have knowledge regarding that</p> <p>18 subject matter?</p> <p>19 A Can you rephrase that question, please?</p> <p>20 Q Sure. One of the topics you're designated 10:09AM</p> <p>21 for is the design and operation of a computer such</p> <p>22 as a pixel device receiving and playing a sequence</p> <p>23 of media items in connection with, and it would be</p> <p>24 the four YouTube apps that we discussed previously.</p> <p>25 So what I'm asking is if you have 10:09AM</p> <p style="text-align: right;">Page 39</p> | <p>1 has a central processing unit? 10:11AM</p> <p>2 MR. KAPLAN: Object to form, scope.</p> <p>3 THE WITNESS: I don't really know like</p> <p>4 if -- that's a difficult question for me to just</p> <p>5 make a statement like that. 10:12AM</p> <p>6 BY MR. BOYEA:</p> <p>7 Q Let me ask it this way: Are you aware of</p> <p>8 any device that can run a YouTube app that does not</p> <p>9 have a central processing unit?</p> <p>10 MR. KAPLAN: Object to form and scope. 10:12AM</p> <p>11 THE WITNESS: I'm unaware of any.</p> <p>12 BY MR. BOYEA:</p> <p>13 Q Are you aware of any device that can run a</p> <p>14 YouTube app that does not have memory?</p> <p>15 MR. KAPLAN: Object to form and scope. 10:12AM</p> <p>16 THE WITNESS: Not that I can think of</p> <p>17 right now.</p> <p>18 BY MR. BOYEA:</p> <p>19 Q Are you aware of any device that can run a</p> <p>20 YouTube app that does not store a YouTube app 10:12AM</p> <p>21 software on that memory?</p> <p>22 MR. KAPLAN: Object to form and scope.</p> <p>23 THE WITNESS: Can you rephrase that?</p> <p>24 BY MR. BOYEA:</p> <p>25 Q Sure. Are you aware of any device that 10:13AM</p> <p style="text-align: right;">Page 41</p> |

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| <p>1 Q Have you heard of a WiFi chipset? 10:19AM</p> <p>2 MR. KAPLAN: Object to scope. You can</p> <p>3 answer the question.</p> <p>4 THE WITNESS: WiFi chipset? Possibly.</p> <p>5 BY MR. BOYEA: 10:19AM</p> <p>6 Q Let me ask you this: For a sender device</p> <p>7 that's running the YouTube app, does that sender</p> <p>8 device connect to a WiFi network? Does it have that</p> <p>9 capability?</p> <p>10 MR. KAPLAN: Object to form. 10:19AM</p> <p>11 THE WITNESS: Can you repeat that</p> <p>12 question?</p> <p>13 BY MR. BOYEA:</p> <p>14 Q Sure. A sender device that's running a</p> <p>15 YouTube app, can that device connect to a WiFi 10:19AM</p> <p>16 network?</p> <p>17 A If that device has that capability.</p> <p>18 Q And what would give that device the</p> <p>19 capability to connect to a WiFi network?</p> <p>20 A Software support and hardware support. 10:20AM</p> <p>21 MR. KAPLAN: Object to scope.</p> <p>22 BY MR. BOYEA:</p> <p>23 Q What hardware support would it need to</p> <p>24 have to be able to connect to a WiFi network?</p> <p>25 MR. KAPLAN: Object to scope. 10:20AM</p> <p style="text-align: right;">Page 46</p> | <p>1 A user could select a single video to 10:22AM</p> <p>2 watch; correct?</p> <p>3 A I don't know what a user could do.</p> <p>4 Q So let me get -- this is your testimony,</p> <p>5 Mr. Mo, so I just want to make sure I'm 10:22AM</p> <p>6 understanding it.</p> <p>7 You're not sure if a user can select a</p> <p>8 single video for playback via the YouTube app; is</p> <p>9 that your testimony?</p> <p>10 MR. KAPLAN: Object to form, 10:22AM</p> <p>11 mischaracterizes testimony.</p> <p>12 THE WITNESS: No, what I meant was I would</p> <p>13 not know what a user may or may not do in a given --</p> <p>14 in a given situation.</p> <p>15 BY MR. BOYEA: 10:23AM</p> <p>16 Q I'm not asking you that. I'm asking that</p> <p>17 it's possible for a user to select a single video</p> <p>18 for playback through a YouTube app on a sender;</p> <p>19 right?</p> <p>20 MR. KAPLAN: Object to scope. 10:23AM</p> <p>21 THE WITNESS: I know that for the main app</p> <p>22 on mobile, that is a -- I believe that's the case,</p> <p>23 it's a supported case.</p> <p>24 BY MR. BOYEA:</p> <p>25 Q Mr. Mo, have you used the YouTube main app 10:23AM</p> <p style="text-align: right;">Page 48</p> |
| <p>1 THE WITNESS: Specifically I wouldn't be 10:20AM</p> <p>2 able to tell you other than WiFi hardware,</p> <p>3 WiFi-enabled hardware.</p> <p>4 BY MR. BOYEA:</p> <p>5 Q Are you aware of any sender device that 10:20AM</p> <p>6 can run a YouTube app that does not have</p> <p>7 WiFi-enabled hardware?</p> <p>8 MR. KAPLAN: Object to form.</p> <p>9 THE WITNESS: Not that I can think of.</p> <p>10 BY MR. BOYEA: 10:21AM</p> <p>11 Q In the context of the YouTube apps, do you</p> <p>12 agree with me that a user could select a single</p> <p>13 media item for playback at a sender device running</p> <p>14 any of the YouTube apps?</p> <p>15 A Please repeat that. 10:21AM</p> <p>16 Q So in the context of the YouTube apps,</p> <p>17 those allow a user to select a single media item for</p> <p>18 playback; correct?</p> <p>19 MR. KAPLAN: Object to form, scope.</p> <p>20 THE WITNESS: It's hard to say. It's -- 10:22AM</p> <p>21 BY MR. BOYEA:</p> <p>22 Q Why is it hard to say?</p> <p>23 A I would need more specifics.</p> <p>24 Q So let's start with a YouTube app running</p> <p>25 on a sender. Okay? 10:22AM</p> <p style="text-align: right;">Page 47</p> | <p>1 before? 10:23AM</p> <p>2 MR. KAPLAN: Object to scope.</p> <p>3 THE WITNESS: On select devices.</p> <p>4 BY MR. BOYEA:</p> <p>5 Q And have you used it on a sender device? 10:23AM</p> <p>6 MR. KAPLAN: Objection.</p> <p>7 THE WITNESS: I have used YouTube main app</p> <p>8 on an Android phone.</p> <p>9 BY MR. BOYEA:</p> <p>10 Q And have you played back video content on 10:24AM</p> <p>11 the Android phone while using the YouTube main app?</p> <p>12 A Yes, I have.</p> <p>13 Q In doing so, have you ever selected a</p> <p>14 single video for playback?</p> <p>15 MR. KAPLAN: Object to form and scope. 10:24AM</p> <p>16 THE WITNESS: I've played a video of</p> <p>17 interest.</p> <p>18 BY MR. BOYEA:</p> <p>19 Q I'm trying to get some basics here,</p> <p>20 Mr. Mo. That's what I'm asking is how a user 10:24AM</p> <p>21 actually can use one of these devices. I'm not</p> <p>22 asking you trick questions. I'm just trying to get</p> <p>23 some baseline terminology with you.</p> <p>24 Is it the case that for at least certain</p> <p>25 of the YouTube apps, it's possible to select a 10:24AM</p> <p style="text-align: right;">Page 49</p> |

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1 playlist of media items for playback? 10:24AM
 2 MR. KAPLAN: Object to scope.
 3 THE WITNESS: You asked if it's possible
 4 for which app?
 5 BY MR. BOYEA: 10:25AM
 6 Q Let's start with the YouTube main app.
 7 A Mm-hmm. Whether it's possible to play
 8 playlists?
 9 Q Correct.
 10 MR. KAPLAN: Object to scope. 10:25AM
 11 THE WITNESS: I believe -- yes, I believe
 12 that's possible.
 13 BY MR. BOYEA:
 14 Q And it's possible to play a playlist in
 15 YouTube Music; correct? 10:25AM
 16 MR. KAPLAN: Same objection.
 17 THE WITNESS: Can you define "playlist"
 18 exactly?
 19 BY MR. BOYEA:
 20 Q Have you -- does Google use the phrase 10:26AM
 21 "playlist" in the context of YouTube Music?
 22 A I -- I use playlist within that context.
 23 Q How do you use the term "playlist" in the
 24 context of YouTube Music?
 25 A It depends on the context of the 10:26AM
 Page 50

1 conversation. 10:26AM
 2 Q What does it depend on?
 3 MR. KAPLAN: Object to scope.
 4 THE WITNESS: Whether I'm talking about it
 5 from -- as like a user or something else. 10:26AM
 6 BY MR. BOYEA:
 7 Q Let's use that understanding. When you're
 8 using it in the context of from a user's
 9 perspective, is it possible to play a playlist in
 10 YouTube Music? 10:27AM
 11 A I don't believe so.
 12 Q And what about YouTube Kids, is it
 13 possible to select a playlist for playback?
 14 A I don't know actually.
 15 Q Okay. So in the context of the YouTube 10:27AM
 16 sender, have you heard the phrase "local queue"
 17 before?
 18 A In the context of -- I'm sorry, can you
 19 repeat that?
 20 Q In the context of a YouTube sender -- let 10:28AM
 21 me strike that.
 22 In the context of a sender running a
 23 YouTube app, have you heard the phrase "local queue"
 24 before?
 25 A Is there more specifics to that? 10:28AM
 Page 51

1 Q What other specifics would you need? 10:28AM
 2 A Just within the context of anything or --
 3 Q So in the context of the YouTube app
 4 playing back on the sender device, have you heard
 5 the phrase "local queue" before? 10:28AM
 6 A I've heard of it.
 7 Q And what is the local queue in that
 8 context?
 9 MR. KAPLAN: Object to form and scope.
 10 THE WITNESS: It depends on -- it's a very 10:29AM
 11 abstract term.
 12 BY MR. BOYEA:
 13 Q Well, your testimony is that you have
 14 heard the phrase "local queue" before in the context
 15 of the YouTube app playing back on the sender 10:29AM
 16 device.
 17 So I want to try to understand what your
 18 understanding is of that term in that context.
 19 MR. KAPLAN: Object to form,
 20 mischaracterizes testimony. 10:29AM
 21 THE WITNESS: I've heard of it with
 22 regards to just playing -- having a user have --
 23 being able to play things that they want on the
 24 phone.
 25
 Page 52

1 BY MR. BOYEA: 10:30AM
 2 Q Is a local queue stored on the phone in
 3 this context?
 4 MR. KAPLAN: Object to form.
 5 THE WITNESS: I don't know. 10:30AM
 6 BY MR. BOYEA:
 7 Q Let me ask you this: In the context of
 8 YouTube Music, are you familiar with the ability for
 9 a user to listen to music without an internet
 10 connection? 10:30AM
 11 A Yes, I have -- I'm aware of something like
 12 that.
 13 Q In that context where a user is playing
 14 back music without an internet connection, would
 15 there be a local queue on the phone? 10:31AM
 16 MR. KAPLAN: Object to form.
 17 THE WITNESS: I don't know whether it's
 18 called that or not. It's YouTube Music client
 19 specific.
 20 BY MR. BOYEA: 10:31AM
 21 Q Do you work on YouTube Music client
 22 specific code?
 23 A Depends on -- again, depends on the
 24 different clients aside from products itself.
 25 Q What do you mean depends on the different 10:31AM
 Page 53

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| <p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 A Yes, I do see that.</p> <p>9 Q Do you have any reason to disagree with</p> <p>10 that statement? 10:47AM</p> <p>11 A I don't know other than I just see that's</p> <p>12 what it says.</p> <p>13 Q Do you have an understanding of what it</p> <p>14 means, "client-side construct"?</p> <p>15 A I can only interpret based on reading this. 10:48AM</p> <p>16 Q As Google's designee on the topics here, I</p> <p>17 would like to get Google's position on what a</p> <p>18 client-side construct means in this context.</p> <p>19 A I didn't write this, so I wouldn't be able</p> <p>20 to answer that. 10:48AM</p> <p>21 Q Okay. Do you know what -- do you see a</p> <p>22 little bit later, two sentences in it describes,</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 Are you familiar with what a renderer is? 10:48AM</p> <p style="text-align: right;">Page 58</p> | <p>1 [REDACTED]? 10:51AM</p> <p>2 A Without -- again, without knowing exactly</p> <p>3 where this came from, it's difficult for me to know</p> <p>4 what this is actually referring to.</p> <p>5 Q So as Google's designee, can you explain 10:51AM</p> <p>6 to me in this context what a renderer is without</p> <p>7 having additional information given to you?</p> <p>8 MR. KAPLAN: Object to form. You can</p> <p>9 answer.</p> <p>10 THE WITNESS: Again, with sort of the 10:52AM</p> <p>11 limited context of this and from my prior experience</p> <p>12 with working with renderers, it's a name -- it's a</p> <p>13 name that we give to, you know, information that's</p> <p>14 somewhere. It's just a naming convention.</p> <p>15 BY MR. BOYEA: 10:52AM</p> <p>16 Q Okay. So you see there is a statement</p> <p>17 that says [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 What is [REDACTED]</p> <p>20 A Again, without knowing specifically what 10:53AM</p> <p>21 this is pointing to, I can't give an exact answer.</p> <p>22 Q Can you give any educated guess as</p> <p>23 Google's designee as to what [REDACTED] means</p> <p>24 in --</p> <p>25 MR. KAPLAN: Object to form. But you can 10:53AM</p> <p style="text-align: right;">Page 60</p> |
| <p>1 A I've heard that term before. 10:48AM</p> <p>2 Q Can you explain to me what does that mean</p> <p>3 at Google, "renderer"?</p> <p>4 A It can mean many things within Google. I'll</p> <p>5 take that definition -- it depends on context again. 10:49AM</p> <p>6 Q In the context of YouTube Music and in</p> <p>7 this document, I'm trying to understand what this</p> <p>8 terminology means.</p> <p>9 So as Google's designee, can you explain</p> <p>10 to me what "renderer" means in the context of this 10:49AM</p> <p>11 document?</p> <p>12 A Let me read through this first.</p> <p>13 The first section I read.</p> <p>14 Q After reading the first section, can you</p> <p>15 give an explanation of what the phrase "renderer" 10:50AM</p> <p>16 means?</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED] Yes.</p> <p>20 Q Can you explain to me what is a [REDACTED]</p> <p>21 [REDACTED] then?</p> <p>22 A Is there -- without looking at the</p> <p>23 definition of that, I wouldn't be able to tell you</p> <p>24 other than it's a type of message.</p> <p>25 Q Where would I find the definition of 10:51AM</p> <p style="text-align: right;">Page 59</p> | <p>1 answer. 10:53AM</p> <p>2 THE WITNESS: I would assume that it's</p> <p>3 equivalent to the [REDACTED] that exists</p> <p>4 for YouTube. And this is music-specific.</p> <p>5 BY MR. BOYEA: 10:53AM</p> <p>6 Q Can you explain to me what the</p> <p>7 [REDACTED] is in the context of YouTube?</p> <p>8 A So, for -- yes, I can.</p> <p>9 Q Go ahead please.</p> <p>10 MR. KAPLAN: Object to form. 10:54AM</p> <p>11 THE WITNESS: Again, the client's example</p> <p>12 YouTube main app, [REDACTED] a -- essentially</p> <p>13 [REDACTED]. [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 BY MR. BOYEA: 10:54AM</p> <p>16 Q [REDACTED]? 10:54AM</p> <p>17 A [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED] 10:54AM</p> <p>21 A Loosely speaking, again, it's a name that we</p> <p>22 just use.</p> <p>23 Q It has to refer to something; right? You</p> <p>24 said, [REDACTED]</p> <p>25 I guess what did you mean by that? 10:55AM</p> <p style="text-align: right;">Page 61</p> |

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| <p>1 A I was just referring to the 10:55AM</p> <p>2 [REDACTED]</p> <p>3 Q [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 MR. KAPLAN: Object to form.</p> <p>13 THE WITNESS: Can you repeat that?</p> <p>14 BY MR. BOYEA:</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 A From reading this document, that's what it's</p> <p>23 suggesting.</p> <p>24 Q Okay. So let's go back to the document.</p> <p>25 If you can go to the second page. 10:56AM</p> <p style="text-align: right;">Page 62</p> | <p>1 A No. 10:58AM</p> <p>2 Q So is that the end of your response?</p> <p>3 A I'm scanning the rest of the document to see</p> <p>4 if it provides more information.</p> <p>5 Q Maybe I'll ask a follow-up question. 10:59AM</p> <p>6 If you look a little bit further down in</p> <p>7 the document, there is a diagram.</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 A I do.</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p style="text-align: right;">11:00AM</p> <p style="text-align: right;">Page 64</p> |
| <p>1 A Okay. 10:57AM</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 Do you see that?</p> <p>8 A Yes, I do see that.</p> <p>9 Q So I want to ask you some questions on the</p> <p>10 terminology here so I have an understanding of what 10:57AM</p> <p>11 this means.</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 MR. KAPLAN: Object to form.</p> <p>17 THE WITNESS: Nothing other than what I</p> <p>18 said earlier.</p> <p>19 BY MR. BOYEA:</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p style="text-align: right;">10:58AM</p> <p style="text-align: right;">Page 63</p> | <p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 Q Separate and aside from this document, are</p> <p>7 you -- have you had any experience with the</p> <p>8 [REDACTED] service?</p> <p>9 A No, I haven't had any experience other than</p> <p>10 I think I'm aware of it. Yes. 11:01AM</p> <p>11 Q Okay. So you might not have information</p> <p>12 for me on this, but let me ask the last question</p> <p>13 from that statement you're looking at above. [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED]</p> <p style="text-align: right;">11:01AM</p> <p style="text-align: right;">Page 65</p> |

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| <p>11:01AM</p> <p>2 A I wouldn't be able to tell you. Again, I</p> <p>3 didn't write this document and short of that being</p> <p>4 described here, I can't tell you.</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 Q Well, Mr. Mo, you're Google's designee</p> <p>15 here and I can read these words and I can try to 11:02AM</p> <p>16 figure out what it means, but you're the one in the</p> <p>17 position to tell me what it means to Google. So I'm</p> <p>18 trying to get your best estimation of what this is</p> <p>19 referring to.</p> <p>20 Are you able to give any testimony on 11:03AM</p> <p>21 behalf of Google here as to what the autoplay</p> <p>22 reference in this document is referring to?</p> <p>23 A No, I'm not.</p> <p>24 MR. KAPLAN: Object to form.</p> <p>25 THE WITNESS: Again, not for this 11:03AM</p> <p style="text-align: right;">Page 66</p> | <p>1 like it could be. 11:05AM</p> <p>2 Q And to be clear, I'll just let you know</p> <p>3 that any document that has the GOOG-SONOS starting</p> <p>4 in the Bates number on the bottom right corner,</p> <p>5 that's a document that Google has produced to Sonos 11:05AM</p> <p>6 in this case.</p> <p>7 So I'm going to have you go to the fifth</p> <p>8 page of the document and you should see a diagram</p> <p>9 that says, [REDACTED]</p> <p>10 Let me know once you're there. 11:06AM</p> <p>11 A Is that Page 5?</p> <p>12 Q It should be Page 5 of the document and</p> <p>13 there should be a blue box at the top of the</p> <p>14 diagram.</p> <p>15 A I'm on that page. 11:07AM</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 MR. KAPLAN: Object to form. You can</p> <p>23 answer.</p> <p>24 THE WITNESS: Can you rephrase your</p> <p>25 question? 11:07AM</p> <p style="text-align: right;">Page 68</p> |
| <p>1 specific -- this document and for the -- this queue 11:03AM</p> <p>2 renderers for autoplay that you've asked for.</p> <p>3 BY MR. BOYEA:</p> <p>4 Q Maybe there is another document that might</p> <p>5 give a little bit more context. 11:04AM</p> <p>6 MR. BOYEA: Jae is going to be introducing</p> <p>7 what is going to be labeled as Mo Exhibit 4.</p> <p>8 (Exhibit 4 was marked for identification.)</p> <p>9 MR. BOYEA: That should be coming through.</p> <p>10 For the record, what has been marked for 11:04AM</p> <p>11 identification as Mo Exhibit 4 is a copy of a</p> <p>12 document titled "Server" and has a starting Bates</p> <p>13 number of GOOG-SONOSWDTX-00039785.</p> <p>14 Q Mr. Mo, let me know once you have that</p> <p>15 opened up. 11:04AM</p> <p>16 A I have it open.</p> <p>17 Q This appears to be another page from the</p> <p>18 same location as the last document we were looking</p> <p>19 at. You see again it says, "Reviewed by davidjn" at</p> <p>20 the top? 11:05AM</p> <p>21 A Yes, I see that.</p> <p>22 Q Davidjn is a reference to David Nicholson,</p> <p>23 a Google employee; correct?</p> <p>24 A That, again, looks familiar to me. Yes, I</p> <p>25 think -- without knowing the source of this, it looks 11:05AM</p> <p style="text-align: right;">Page 67</p> | <p>1 BY MR. BOYEA: 11:07AM</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 MR. KAPLAN: Same objection. You can</p> <p>5 answer that. 11:07AM</p> <p>6 THE WITNESS: No, I'm not.</p> <p>7 BY MR. BOYEA:</p> <p>8 Q [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 11:09AM</p> <p style="text-align: right;">Page 69</p> |

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| <p>1 THE WITNESS: I've seen something similar 11:15AM</p> <p>2 to it.</p> <p>3 BY MR. BOYEA:</p> <p>4 Q You agree with me that this is a</p> <p>5 YouTube -- a screenshot of a YouTube main app; 11:15AM</p> <p>6 right?</p> <p>7 A Again, without knowing the source of the</p> <p>8 screenshot, it's hard to say whether it's from a</p> <p>9 natural YouTube app or not.</p> <p>10 Q I'll represent that this was captured on 11:15AM</p> <p>11 the pixel device running the YouTube main app. And</p> <p>12 so I want to ask you some questions here.</p> <p>13 So you see in the upper -- not all the way</p> <p>14 to the upper right corner of Screenshot 1, but that</p> <p>15 there is an icon that has "cc" in it? 11:16AM</p> <p>16 A Yes, I see that.</p> <p>17 Q Then to the left of that there is what I</p> <p>18 believe is referred to as the cast icon; correct?</p> <p>19 A It looks like one, yes.</p> <p>20 Q Then to the left of that is another icon 11:16AM</p> <p>21 with -- looks to be like a play -- a circle around</p> <p>22 like a play icon.</p> <p>23 Do you see that?</p> <p>24 MR. KAPLAN: Object to form.</p> <p>25 THE WITNESS: I see -- yes, I see another 11:16AM</p> <p style="text-align: right;">Page 74</p> | <p>1 Q Do you have an understanding of what 11:18AM</p> <p>2 "Autoplay is on" is referring to in the YouTube Kids</p> <p>3 context?</p> <p>4 A I cannot say definitively.</p> <p>5 Q Does YouTube Kids refer to autoplay in any 11:18AM</p> <p>6 other context other than it being a recommendation</p> <p>7 of a video after the current video finishes?</p> <p>8 A Again, it depends on context. It could be</p> <p>9 different things just from experience.</p> <p>10 Q In this context shown in Screenshot 11:18AM</p> <p>11 Number 2, you can't tell me what "Autoplay is on" is</p> <p>12 referring to?</p> <p>13 MR. KAPLAN: Object to form. But you can</p> <p>14 answer.</p> <p>15 THE WITNESS: I can only guess what it's 11:19AM</p> <p>16 for.</p> <p>17 BY MR. BOYEA:</p> <p>18 Q Well, as Google's 30(b)(6) designee, can</p> <p>19 you give me an educated guess as to what you think</p> <p>20 this is for? 11:19AM</p> <p>21 MR. KAPLAN: Object to form. But you can</p> <p>22 answer.</p> <p>23 THE WITNESS: Again, this is outside of</p> <p>24 the context of casting, so my guess is that it could</p> <p>25 be similar to what is shown above in the main app. 11:19AM</p> <p style="text-align: right;">Page 76</p> |
| <p>1 icon, it's to the other cast like icon. 11:16AM</p> <p>2 BY MR. BOYEA:</p> <p>3 Q Are you familiar with what the icon next</p> <p>4 to the cast icon is used for?</p> <p>5 A As a user, I believe from experience, yes. 11:17AM</p> <p>6 Q What is it used for then?</p> <p>7 A To enable recommendations when the current</p> <p>8 video finishes.</p> <p>9 Q Is that the same thing as the feature that</p> <p>10 Google refers to as autoplay? 11:17AM</p> <p>11 MR. KAPLAN: Object to form. But you can</p> <p>12 answer.</p> <p>13 THE WITNESS: That term is actually</p> <p>14 overloaded. So maybe if you can provide a more</p> <p>15 concrete definition of "autoplay." 11:17AM</p> <p>16 BY MR. BOYEA:</p> <p>17 Q Well, I'm asking how Google uses that</p> <p>18 terminology. So you can see below in Screenshot</p> <p>19 Number 2, I'll represent that this is a screenshot</p> <p>20 that was taken using the YouTube Kids app on a pixel 11:17AM</p> <p>21 device.</p> <p>22 You see right in the middle it says,</p> <p>23 "Autoplay is on."</p> <p>24 Do you see that?</p> <p>25 A I do see that. 11:18AM</p> <p style="text-align: right;">Page 75</p> | <p>1 that it would enable recommendations for when the 11:19AM</p> <p>2 current video ends.</p> <p>3 BY MR. BOYEA:</p> <p>4 Q Now, you've referred to recommendations.</p> <p>5 Where do these recommendations come from? 11:20AM</p> <p>6 A I'm not an expert in recommendations on</p> <p>7 YouTube. They come from essentially a service.</p> <p>8 That's one way to get recommendations.</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 Q If you scroll to the second page of this</p> <p>25 document, there are two screenshots labeled 11:21AM</p> <p style="text-align: right;">Page 77</p> |

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| <p>1 Screenshot 3 and Screenshot 4. I'll represent that 11:21AM</p> <p>2 these were screenshots taken on a pixel device</p> <p>3 running the YouTube Music app.</p> <p>4 Do you see in Screenshot Number 4, Mr. Mo,</p> <p>5 there is an autoplay banner about a little more than 11:21AM</p> <p>6 halfway above -- between the halfway point of this</p> <p>7 screenshot.</p> <p>8 Do you see that?</p> <p>9 A Yes, I see that.</p> <p>10 Q Are you familiar with how the section of 11:22AM</p> <p>11 this screen is populated below the autoplay section?</p> <p>12 A No, I'm not.</p> <p>13 [REDACTED] 11:22AM</p> <p>16 A I don't know in this case.</p> <p>17 Q Who at Google would you go ask if you</p> <p>18 wanted to find the answer to that question? Do you</p> <p>19 have anybody in mind?</p> <p>20 A No, I would -- someone on the YouTube Music 11:23AM</p> <p>21 team.</p> <p>22 Q And who would you at the YouTube Music</p> <p>23 team start with if you were trying to find the</p> <p>24 answer to that question?</p> <p>25 A I don't have a person off the top of my mind 11:23AM</p> <p style="text-align: right;">Page 78</p> | <p>1 For the record, this is a document titled 11:25AM</p> <p>2 "Cast" and the first Bates number is</p> <p>3 GOOG-SONOSWDTX-000 39484.</p> <p>4 Q Let me know when you have that open,</p> <p>5 Mr. Mo. 11:25AM</p> <p>6 A Yes, I have it open.</p> <p>7 Q Have you seen this document before?</p> <p>8 A It looks familiar. I can't say for sure</p> <p>9 whether I've seen this specific one or not.</p> <p>10 Q But you've seen documents like this? 11:26AM</p> <p>11 A I've seen documents that has similar</p> <p>12 content.</p> <p>13 Q And where would you have seen documents</p> <p>14 like this?</p> <p>15 A I'm looking at the left side, it's a -- 11:26AM</p> <p>16 essentially it's a team site.</p> <p>17 Q Do you have access to this team site?</p> <p>18 A Again, I don't know. It looks like it. It</p> <p>19 looks like this document could come from it. I</p> <p>20 have -- 11:27AM</p> <p>21 Q Yes, go ahead.</p> <p>22 A And I have had access to the team site</p> <p>23 before.</p> <p>24 Q This is a team site that's internal to</p> <p>25 Google; correct? 11:27AM</p> <p style="text-align: right;">Page 80</p> |
| <p>1 setting here. 11:23AM</p> <p>2 Q Is there a team lead over in the YouTube</p> <p>3 Music team -- I guess. Let me strike that.</p> <p>4 Is there a leader of the YouTube Music</p> <p>5 team that you would go to? 11:23AM</p> <p>6 A I don't know who that person would be.</p> <p>7 Q All right. So if you scroll to the third</p> <p>8 page of this document, there is a screenshot labeled</p> <p>9 Screenshot Number 5. And I'll represent to you that</p> <p>10 this is a screenshot that was captured on a pixel 11:24AM</p> <p>11 device running the YouTube TV app.</p> <p>12 Do you see below the halfway point of the</p> <p>13 screenshot, there is an "Up Next" section there?</p> <p>14 A Yes, I see that.</p> <p>15 Q Do you have an understanding of where the 11:24AM</p> <p>16 "Up Next" information comes from?</p> <p>17 A No, I don't have that knowledge.</p> <p>18 Q Okay. So let's shift gears a little bit</p> <p>19 here and talk about -- we'll get another document</p> <p>20 introduced here. 11:24AM</p> <p>21 MR. BOYE: This will be marked for</p> <p>22 identification purposes as Mo Exhibit 6.</p> <p>23 (Exhibit 6 was marked for identification.)</p> <p>24 MR. BOYE: That should be coming through</p> <p>25 now, Mr. Mo. Go ahead and take a look at that. 11:25AM</p> <p style="text-align: right;">Page 79</p> | <p>1 A Yes, it would be. 11:27AM</p> <p>2 Q All right. So do you have a general</p> <p>3 understanding of what the context of this document</p> <p>4 is?</p> <p>5 I'll ask a better question. Let me strike 11:27AM</p> <p>6 that.</p> <p>7 Do you have a general understanding of the</p> <p>8 subject matter of this document titled "Cast"?</p> <p>9 A Can you give me a few moments to read</p> <p>10 through this? 11:27AM</p> <p>11 Q Yes, sure.</p> <p>12 Now that you have had a chance to read</p> <p>13 through it, do you have an understanding of the</p> <p>14 general subject matter of this document?</p> <p>15 A Yes, I do in general, a general level. 11:29AM</p> <p>16 Q And what is your general understanding of</p> <p>17 the subject matter?</p> <p>18 MR. KAPLAN: Object to form. But you can</p> <p>19 answer.</p> <p>20 THE WITNESS: Just a high level of what 11:29AM</p> <p>21 he's talking about here in this doc.</p> <p>22 BY MR. BOYE:</p> <p>23 Q And what is that?</p> <p>24 [REDACTED]</p> <p>25 Q Perfect. That's what I want to get into. 11:29AM</p> <p style="text-align: right;">Page 81</p> |

28 (Pages 106 - 109)

31 (Pages 118 - 121)

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| <p>1 and wants to listen to an album -- are you following 1:27PM</p> <p>2 me so far?</p> <p>3 A This is on the sender side this is happening</p> <p>4 on?</p> <p>5 Q Yes, on the sender side. So if they want 1:28PM</p> <p>6 to listen to an album, are you familiar with the</p> <p>7 album appearing in the up next panel?</p> <p>8 A No. Can you clarify some more?</p> <p>9 Q Let me see if we have an example. Let me</p> <p>10 see. We're going to introduce another exhibit. 1:29PM</p> <p>11 Hopefully this can give you a little bit more</p> <p>12 context.</p> <p>13 MR. BOYEA: Jae just added to the shared</p> <p>14 folder what we marked as Mo Exhibit 7.</p> <p>15 (Exhibit 7 was marked for identification.) 1:29PM</p> <p>16 MR. BOYEA: Let me know once you have</p> <p>17 that.</p> <p>18 For the record, this is a screenshot that</p> <p>19 was recently captured on a pixel device of the</p> <p>20 YouTube app. 1:29PM</p> <p>21 THE WITNESS: I have it open.</p> <p>22 BY MR. BOYEA:</p> <p>23 Q Okay. And so, Mr. Mo, as you can see</p> <p>24 here, this is a screenshot of a YouTube app. And</p> <p>25 there is a current cast session that says, "Playing 1:29PM</p> <p style="text-align: right;">Page 122</p> | <p>1 BY MR. BOYEA: 1:31PM</p> <p>2 Q What information would you need to know?</p> <p>3 A Just where it's getting the data from for</p> <p>4 populating this TV queue section.</p> <p>5 Q Yes, those are the questions I'm asking 1:32PM</p> <p>6 you, right?</p> <p>7 You are Google's 30(b)(1) witness on the</p> <p>8 accused autoplay functionality for the YouTube apps.</p> <p>9 So what I'm asking you is: As Google's</p> <p>10 representative, how is the TV queue represented here 1:32PM</p> <p>11 on the screen, how is that presented in [REDACTED]</p> <p>[REDACTED], if at all?</p> <p>13 MR. KAPLAN: Object to form and</p> <p>14 authenticity.</p> <p>15 THE WITNESS: Again, not knowing exactly 1:32PM</p> <p>16 where -- what this is tied to, which client, which</p> <p>17 date, I can't say for certain.</p> <p>18 BY MR. BOYEA:</p> <p>19 Q All right. The date this was taken was</p> <p>20 this weekend using a current YouTube app running on 1:33PM</p> <p>21 a pixel device -- or excuse me, on an iPhone and --</p> <p>22 yeah, it was running on an iPhone.</p> <p>23 So what other information do you need from</p> <p>24 me?</p> <p>25 A There's also a lot of things that I alluded 1:33PM</p> <p style="text-align: right;">Page 124</p> |
| <p>1 on Speaker A." 1:30PM</p> <p>2 Do you see that?</p> <p>3 MR. KAPLAN: Object to authenticity. Go</p> <p>4 ahead.</p> <p>5 THE WITNESS: I do see this picture that's 1:30PM</p> <p>6 in this document.</p> <p>7 BY MR. BOYEA:</p> <p>8 Q Are you familiar with the panel that is</p> <p>9 shown where it says, "TV queue 2/2" and then below</p> <p>10 that, "Autoplay is on"? 1:30PM</p> <p>11 Have you seen that before?</p> <p>12 A I can't say for certain. The UI is -- maybe</p> <p>13 I'm more familiar with another UI.</p> <p>14 Q But are you familiar with this type of UI</p> <p>15 where there are TV queue items followed by an 1:30PM</p> <p>16 autoplay section?</p> <p>17 A Yes, I have seen UIs with similar layouts.</p> <p>18 Q [REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED] Let's start there.</p> <p>22 MR. KAPLAN: Object to form.</p> <p>23 THE WITNESS: It's hard to say without</p> <p>24 knowing exactly what is actually happening behind</p> <p>25 the scenes with this UI. 1:31PM</p> <p style="text-align: right;">Page 123</p> | <p>1 to before YouTube runs experiments, which means that 1:33PM</p> <p>2 not all the users are guaranteed to get the same</p> <p>3 experience.</p> <p>4 Q How does that change your answer?</p> <p>5 A I can't say anything with particularity. 1:33PM</p> <p>6 Q You're Google's 30(b) -- yeah, go ahead.</p> <p>7 A I just wouldn't be able to say for certain</p> <p>8 for this specific case.</p> <p>9 Q Let's take it away from this specific</p> <p>10 case. 1:34PM</p> <p>11 You understand that YouTube, you can cast</p> <p>12 a user-selected item; correct, a user-selected</p> <p>13 video; right?</p> <p>14 A Yes.</p> <p>15 Q And in the casting context, YouTube will 1:34PM</p> <p>16 provide an autoplay recommendation; correct?</p> <p>17 A It provides the capability for which the</p> <p>18 user can enable.</p> <p>19 Q And in fact, YouTube has autoplay enabled</p> <p>20 by default; right? 1:34PM</p> <p>21 MR. KAPLAN: Object to form and scope.</p> <p>22 THE WITNESS: I don't know.</p> <p>23 BY MR. BOYEA:</p> <p>24 Q You don't know one way or the other;</p> <p>25 right? 1:34PM</p> <p style="text-align: right;">Page 125</p> |

[illegible]

1 BY MR. BOYEA: 1:40PM
2 Q What does the phrase "TV queue" mean in
3 the context of YouTube?
4 MR. KAPLAN: Object to form.
5 THE WITNESS: It's really ambiguous to me. 1:40PM
6 I would say it depends on what we're talking to
7 specifically. I know it mentions TV queue in this
8 screenshot.
9 BY MR. BOYEA:
10 [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED] 1:41PM
16 BY MR. BOYEA:
17 [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED] 1:42PM

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37 (Pages 142 - 145)

43 (Pages 166 - 169)

44 (Pages 170 - 173)

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| <p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 3:20PM</p> <p>Page 174</p> | <p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 THE REPORTER: Is this a good time for a</p> <p>5 break? 3:22PM</p> <p>6 MR. KAPLAN: Before we take a break, could</p> <p>7 we mark the transcript as highly confidential source</p> <p>8 code, please?</p> <p>9 THE REPORTER: Sure.</p> <p>10 MR. BOYEA: Let's go ahead and go off the 3:23PM</p> <p>11 record.</p> <p>12 THE VIDEOGRAPHER: Off the record at</p> <p>13 3:23 p.m.</p> <p>14 (Recess taken.)</p> <p>15 VIDEOGRAPHER: We're back on the record. 3:34PM</p> <p>16 The time is 3:34 p.m. Pacific time.</p> <p>17 MR. BOYEA: We're going to introduce</p> <p>18 another exhibit here. This is some additional</p> <p>19 screenshots, Mr. Mo, that I want you to take a look</p> <p>20 at. 3:34PM</p> <p>21 And I'm going to just walk through them</p> <p>22 with you and see if you can explain some things to</p> <p>23 me. This is going to be marked as Mo Exhibit 8.</p> <p>24 (Exhibit 8 was marked for identification.)</p> <p>25 MR. BOYEA: It should be coming through</p> <p>Page 176</p> |
| <p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 3:22PM</p> <p>Page 175</p> | <p>1 now. 3:35PM</p> <p>2 THE WITNESS: I have it loaded.</p> <p>3 BY MR. BOYEA:</p> <p>4 Q Okay. All right. Mr. Mo, these are some</p> <p>5 screenshots that I took this past weekend and this 3:35PM</p> <p>6 was done on an iPhone and there is a cast session</p> <p>7 that's established.</p> <p>8 In Screenshot 1 we see that there is a</p> <p>9 first video being played with the title that has</p> <p>10 "Max Homa," H-O-M-A in it. 3:35PM</p> <p>11 Do you see that?</p> <p>12 A Yes, I do.</p> <p>13 Q In this circumstance, the speaker -- the</p> <p>14 receiver named Speaker A is currently playing the</p> <p>15 Max Homa video. 3:35PM</p> <p>16 And so would it be the case that the cast</p> <p>17 receiver would have a video ID stored corresponding</p> <p>18 to that video that's being played?</p> <p>19 MR. KAPLAN: Objection, authenticity.</p> <p>20 THE WITNESS: Sorry, can you walk me 3:36PM</p> <p>21 through like the scenario of which you've got here?</p> <p>22 BY MR. BOYEA:</p> <p>23 Q Yes. So Screenshot Number 1, it was local</p> <p>24 playback on the iPhone and then it was a cast</p> <p>25 directed to a Hub display. So the Hub display is 3:36PM</p> <p>Page 177</p> |

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| <p>1 what's named Speaker A. 3:36PM</p> <p>2 And so my first question is: Would the</p> <p>3 Hub display have a video ID corresponding to the Max</p> <p>4 Homa video that's being played?</p> <p>5 MR. KAPLAN: Object to form. 3:37PM</p> <p>6 THE WITNESS: It's hard for me to answer</p> <p>7 or say based off of a screenshot.</p> <p>8 BY MR. BOYEA:</p> <p>9 Q Again, I'm trying to use these screenshots</p> <p>10 to direct what is going on because you can't really 3:37PM</p> <p>11 take a picture of what a -- what speakers are doing</p> <p>12 when they are playing video and the like.</p> <p>13 So I don't want you to get so worried</p> <p>14 about what is being displayed on the screen, but the</p> <p>15 general functionality is really what I'm interested 3:37PM</p> <p>16 in.</p> <p>17 So in an example like this where a Hub</p> <p>18 device is playing a song from YouTube and it's in a</p> <p>19 cast session, it would have a video ID retained</p> <p>20 locally corresponding to the video that it's 3:38PM</p> <p>21 playing; right?</p> <p>22 MR. KAPLAN: Object to form.</p> <p>23 THE WITNESS: Yes, the receiver would have</p> <p>24 a video ID for the actual video that is playing on</p> <p>25 the device, on the receiver device. 3:38PM</p> <p style="text-align: right;">Page 178</p> | <p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 Screen 2, autoplay is off. And then 3:41PM</p> <p>16 Screen 3, autoplay is back on and the autoplay video</p> <p>17 is "2001 Masters Tournament."</p> <p>18 Do you see that? So that's what I'm</p> <p>19 really trying to ask you about here.</p> <p>20 So let me reframe the question. 3:41PM</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 MR. KAPLAN: Object to form.</p> <p>25 THE WITNESS: From memory, I'm not certain 3:41PM</p> <p style="text-align: right;">Page 180</p> |
| <p>1 BY MR. BOYEA: 3:38PM</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED] 3:39PM</p> <p>16 MR. KAPLAN: Object to form.</p> <p>17 THE WITNESS: I don't know if I'm -- from</p> <p>18 memory whether that gets deleted or not or if it</p> <p>19 makes another [REDACTED]</p> <p>20 THE REPORTER: I'm sorry, I didn't 3:40PM</p> <p>21 understand that.</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 3:40PM</p> <p style="text-align: right;">Page 179</p> | <p>1 what actually happens on the receiver side. 3:41PM</p> <p>2 BY MR. BOYEA:</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 MR. KAPLAN: Object to form.</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 3:43PM</p> <p style="text-align: right;">Page 181</p> |

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| <p>1 [REDACTED] [REDACTED] 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 [REDACTED] [REDACTED] 6 [REDACTED] 7 [REDACTED] 8 [REDACTED] 9 [REDACTED] 10 [REDACTED] [REDACTED] 11 [REDACTED] 12 [REDACTED] 13 [REDACTED] 14 [REDACTED] 15 [REDACTED] [REDACTED] 16 [REDACTED] 17 [REDACTED] 18 [REDACTED] 19 [REDACTED] 20 [REDACTED] [REDACTED] 21 [REDACTED] 22 [REDACTED] 23 [REDACTED] 24 [REDACTED] 25 [REDACTED] 3:45PM Page 182</p> | <p>1 for is subpart 3 of Topic 1, which is the design and 3:46PM 2 operation of the aforementioned stream transfer 3 accused functionality relating to the YouTube apps. 4 And when I asked you earlier, you had 5 noted that you don't have knowledge of the stream 3:47PM 6 transfer function. Is that accurate? Did I get 7 that right in your testimony earlier? 8 MR. KAPLAN: Object to form. 9 THE WITNESS: Sorry, I don't remember the 10 entire context of that question. 3:47PM 11 BY MR. BOYEA: 12 Q All right. So maybe why don't I start 13 over for us then. 14 So are you familiar with the feature 15 called "stream transfer" in the context of any of 3:47PM 16 the YouTube apps? 17 A Yes, I've heard of stream transfer feature. 18 Q Are you knowledgeable regarding the 19 implementation details of that feature? 20 A I have some knowledge as it pertains to 3:48PM 21 YouTube. 22 MR. BOYEA: Okay. So why don't we go 23 ahead and introduce a new document here. And Jae is 24 going to pull that up for us. That's going to be 25 identified as Mo Exhibit 9 for identification 3:48PM Page 184</p> |
| <p>1 [REDACTED] [REDACTED] 2 [REDACTED] 3 [REDACTED] 4 [REDACTED] 5 [REDACTED] [REDACTED] 6 [REDACTED] 7 [REDACTED] 8 [REDACTED] 9 [REDACTED] 10 [REDACTED] [REDACTED] 11 [REDACTED] 12 [REDACTED] 13 [REDACTED] 14 [REDACTED] 15 [REDACTED] 16 [REDACTED] 17 [REDACTED] 18 [REDACTED] 19 [REDACTED] 20 [REDACTED] 21 [REDACTED] 22 [REDACTED] 23 [REDACTED] 24 BY MR. BOYEA: 25 Q One of the topics that you're designated 3:46PM Page 183</p> | <p>1 purposes. 3:48PM 2 (Exhibit 9 was marked for identification.) 3 BY MR. BOYEA: 4 Q Mr. Mo, you should see that now and go 5 ahead and read that when you get the chance. 3:49PM 6 MR. BOYEA: For the record, this is a 7 document entitled "Cast Stream Transfer and YouTube" 8 and the first Bates-labeled page shows 9 GOOG-SONOSWDTX-00041934. 10 Q Mr. Mo, let me know when you have that 3:49PM 11 open. 12 A I have that open. 13 Q You're familiar with this document; 14 correct? 15 A I see my name at the top. Let me review 3:49PM 16 this. 17 I skimmed through it. 18 Q Your name is next to owner; correct? 19 A Yes, I see that. 20 Q What does that mean that you're the owner 3:51PM 21 of this document? 22 A Generally it just means that, you know, 23 whoever is on that file -- sorry, on that line has 24 contributed into it. 25 Q So have you contributed -- did you 3:52PM Page 185</p> |

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| <p>1 contribute to this document, the authorship of it? 3:52PM</p> <p>2 A It's -- I don't have any concrete memory of</p> <p>3 what I added. It's possible, yes.</p> <p>4 Q Does your name appear next to the owner</p> <p>5 line of many Google documents that you didn't 3:52PM</p> <p>6 contribute to?</p> <p>7 MR. KAPLAN: Object to form, scope.</p> <p>8 THE WITNESS: There are lots of Google</p> <p>9 documents, so I can't say.</p> <p>10 BY MR. BOYEA: 3:52PM</p> <p>11 Q So your testimony is that the owner line</p> <p>12 with your name next to it does not mean that you</p> <p>13 contributed to this document?</p> <p>14 MR. KAPLAN: Objection, misstates</p> <p>15 testimony, form, scope. 3:52PM</p> <p>16 THE WITNESS: No, I'm not saying that I</p> <p>17 did not contribute to it, rather I don't remember</p> <p>18 exactly what I contributed to this doc.</p> <p>19 BY MR. BOYEA:</p> <p>20 Q But this is a Google document; right? 3:53PM</p> <p>21 A It looks like one.</p> <p>22 Q And your name appears to it; right?</p> <p>23 A Yes.</p> <p>24 Q It's dealing with -- the subject matter is</p> <p>25 "cast stream transfer." 3:53PM</p> <p style="text-align: right;">Page 186</p> | <p>1 MR. KAPLAN: Objection, scope. 3:56PM</p> <p>2 THE WITNESS: Someone from Google HR.</p> <p>3 BY MR. BOYEA:</p> <p>4 Q But you don't know whether that individual</p> <p>5 is still at Google; is that your testimony? 3:56PM</p> <p>6 MR. KAPLAN: Objection.</p> <p>7 THE WITNESS: Where I am right now,</p> <p>8 current I don't know.</p> <p>9 BY MR. BOYEA:</p> <p>10 Q Go ahead and turn to PDF Page 5 of this 3:56PM</p> <p>11 document, ending in 938 in the Bates number.</p> <p>12 A Okay.</p> <p>13 Q Go ahead and read starting from the</p> <p>14 paragraph that says "Instead" through the Number 7</p> <p>15 bullet point that's listed there. 3:56PM</p> <p>16 Because I want to ask you about these</p> <p>17 steps that are specified here.</p> <p>18 A Okay. I've read to Step 7.</p> <p>19 Q So my question is: Is this an accurate</p> <p>20 explanation of how stream transfer works for the 3:58PM</p> <p>21 YouTube apps?</p> <p>22 A What is actually described here from my</p> <p>23 understanding is rather vague and not accurate.</p> <p>24 Q What is not accurate about what is</p> <p>25 described here? 3:58PM</p> <p style="text-align: right;">Page 188</p> |
| <p>1 And this presumably is written for other 3:53PM</p> <p>2 people working on the cast stream transfer at</p> <p>3 Google; right?</p> <p>4 A That's rather vague. Again, there's</p> <p>5 multiple owners of the file. It's hard to identify -- 3:53PM</p> <p>6 there is no rhyme or reason what the original intent</p> <p>7 of this was.</p> <p>8 Q You've taken a look at this document.</p> <p>9 What was the purpose of this document?</p> <p>10 A From reading this, it looks like a 3:54PM</p> <p>11 project/mini design doc explaining the topic of cast</p> <p>12 stream transfer and YouTube.</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED] 3:55PM</p> <p>21 Q Is Nicholas still at Google?</p> <p>22 A I don't know.</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 3:56PM</p> <p style="text-align: right;">Page 187</p> | <p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 4:00PM</p> <p style="text-align: right;">Page 189</p> |

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53 (Pages 206 - 209)

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| <p>1 A Yeah, I don't know -- specifically I don't 4:46PM 2 know what happens with the autoplay, those songs 3 underneath the autoplay. I would say that's a YouTube 4 Music feature. 5 MR. BOYEA: At this point this is going to 4:46PM 6 conclude Sonos's questions for today on the 30(b)(6) 7 topics. However, Sonos is going to leave the 8 30(b)(6) deposition of Google open on Topics -- 9 Topic 1, subparts 2 through 7 in view of Google's 10 late production of source code printouts that 4:46PM 11 Sonos's counsel is still not in possession of and in 12 view of Sonos's review of the transcript that 13 reveals any topics that Mr. Mo was not prepared to 14 testify about. 15 MR. KAPLAN: For the record, we disagree 4:47PM 16 with that position and we think that the deposition 17 is -- excuse me, we disagree with that position and 18 we believe that the deposition should be wrapped up 19 with respect to the topics that Mr. Mo was 20 designated on. 4:47PM 21 We will however -- 22 MR. BOYEA: We will resolve that later. 23 MR. KAPLAN: We will resolve it later, 24 agreed. And we also reserve our right to read and 25 sign for the 30(b)(6) portion. 4:47PM</p> <p style="text-align: right;">Page 210</p> | <p>1 MR. BOYEA: All right. Because that was 5:31PM 2 part of the 30(b)(6) conversation, I'm going to ask 3 that this be part of the 30(b)(6) portion of the 4 transcript, if you're good with that, Marc. 5 MR. KAPLAN: I think that's fair. 5:31PM 6 BY MR. BOYEA: 7 Q Mr. Mo, can you just tell me what exhibit? 8 A Exhibit 5 at Page 2. 9 Q All right. This is the page that has 10 Screenshot 3 and Screenshot 4; is that right? 5:32PM 11 A Yes. 12 Q So what did you want to talk about in this 13 exhibit? 14 A I was wondering if you could -- would you be 15 able to find or explain the content underneath this 5:32PM 16 autoplay section? 17 I'm only asking because, again, I'm not -- 18 I don't work on YouTube Music sender app. So the UI 19 is not familiar to me. So I kind of wanted to have 20 you clarify the actual content underneath because I 5:33PM 21 might have had some misassumption about what it is. 22 Q Let me ask you this, first, Mr. Mo: Did 23 you speak to anybody during any of the breaks about 24 the substance of your testimony here? 25 A No. 5:33PM</p> <p style="text-align: right;">Page 212</p> |
| <p>1 MR. BOYEA: All right. Do we need to jump 4:47PM 2 off to do the 30(b)(1) in a different session? 3 THE REPORTER: Not from my point of view. 4 I'm not sure about the videographer, though. David? 5 THE VIDEOGRAPHER: No, I don't think we 4:48PM 6 have to. We can just make note of it and we can 7 continue on. 8 MR. BOYEA: Is that okay with you, Marc? 9 MR. KAPLAN: That's fine with me. It 10 sounds like the transcript is going to show that we 4:48PM 11 ended the 30(b)(6) session and we're starting the 12 30(b)(1) session and that's all we're looking for. 13 The separately transcribed I think just 14 means having some indicator designation showing that 15 we're switching over, which it sounds like we have. 4:48PM 16 (Discussion off the record.) 17 (The following testimony was amended to 18 the end of the 30(b)(6) deposition as requested by 19 Counsel.) 20 THE WITNESS: I do have something that I 5:31PM 21 was thinking at the last break over a screenshot in 22 particular that was presented to me. 23 I was wondering if that was something that 24 I can clarify to see if we can further discuss 25 actually? 5:31PM</p> <p style="text-align: right;">Page 211</p> | <p>1 Q So I don't know what more information I 5:33PM 2 can give you other than the content that is 3 appearing below the autoplay is just -- my 4 understanding is it's additional songs that would be 5 played at the sender that's, you know, running the 5:33PM 6 YouTube Music app. 7 So from the user's perspective, if I 8 listened all the way through "Come Together," "Here 9 Comes the Sun" would play immediately following 10 that. 5:34PM 11 A Okay. So that -- those content underneath, 12 what would happen if autoplay is turned off? 13 Q My understanding, at least from the 14 screenshot level, the user-facing level, those would 15 go away and all you would see is "Come Together" in 5:34PM 16 this particular instance. 17 A I see, okay. 18 Q Does that refresh your recollection on 19 anything that we talked about before that you would 20 want to go over again or -- 5:34PM 21 A No. So I wasn't sure whether if I was 22 thinking that everything down there was autoplay, just 23 because it was underneath the autoplay text. But I 24 should have clarified further with you. 25 But no, I think how you explained it, even 5:35PM</p> <p style="text-align: right;">Page 213</p> |

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| <p>1 with that, I don't know what happens. 5:35PM</p> <p>2 MR. BOYEA: Okay. Fair enough. I</p> <p>3 appreciate you trying to clarify that and to see if</p> <p>4 you could give any more testimony on it.</p> <p>5 (Start of 30(b)(1) testimony.)</p> <p>6 BY MR. BOYEA:</p> <p>7 Q So we're going to transition over to the</p> <p>8 30(b)(1) portion of the deposition.</p> <p>9 So, Mr. Mo, I'm now going to ask you</p> <p>10 questions in your personal capacity. 4:49PM</p> <p>11 We had introduced, before the deposition</p> <p>12 started, a first exhibit which is labeled Mo</p> <p>13 Exhibit 1. Why don't you go ahead and open that up.</p> <p>14 A Okay.</p> <p>15 Q Is this a copy of your LinkedIn profile? 4:49PM</p> <p>16 A No, it's not.</p> <p>17 Q Once I saw you, I did not think that this</p> <p>18 looked like you.</p> <p>19 So do you have your own LinkedIn profile</p> <p>20 or no? 4:49PM</p> <p>21 A Yes, I'm on LinkedIn.</p> <p>22 Q How is your name spelled in your LinkedIn</p> <p>23 profile, Vince or Vincent?</p> <p>24 A It's Vincent Mo.</p> <p>25 Q I think Jae is going to grab that. 4:50PM</p> <p style="text-align: right;">Page 214</p> | <p>1 A I was on the platform software team -- 4:52PM</p> <p>2 sorry, platform infrastructure engineering. It's part</p> <p>3 of the data center infrastructure PA.</p> <p>4 Q Then we did you get involved with YouTube?</p> <p>5 A I joined YouTube in 2016. 4:52PM</p> <p>6 Q It looks like we may have a copy here.</p> <p>7 MR. BOYEA: Jae, can you go ahead and</p> <p>8 introduce that for us as the next exhibit, which</p> <p>9 would be Mo Exhibit 11?</p> <p>10 (Exhibit 11 was marked for identification.) 4:52PM</p> <p>11 BY MR. BOYEA:</p> <p>12 Q Mr. Mo, let me know when you have that</p> <p>13 pulled up.</p> <p>14 A Yes, I have it.</p> <p>15 Q I think this one looks more like you. Is 4:53PM</p> <p>16 this your LinkedIn profile?</p> <p>17 A Yes, it looks like it.</p> <p>18 Q All right. Did you prepare the contents</p> <p>19 of the LinkedIn profile that we have a copy of here?</p> <p>20 A Like did I write this? 4:53PM</p> <p>21 Q Sure. Like under the experience sections,</p> <p>22 did you write the descriptions that follow?</p> <p>23 A Yes.</p> <p>24 Q Okay. Before you started working on the</p> <p>25 YouTube team, had you worked on any of Google's 4:53PM</p> <p style="text-align: right;">Page 216</p> |
| <p>1 Let me ask you this: When did you start 4:50PM</p> <p>2 working at Google?</p> <p>3 A I started some time in 2010.</p> <p>4 Q What were you doing before you joined</p> <p>5 Google? 4:50PM</p> <p>6 A I was a software engineer at a company</p> <p>7 called EADS North America.</p> <p>8 Q Okay. I have limited time, so I'm not</p> <p>9 going to get into too much. But where were you at</p> <p>10 before that EADS North America company? 4:50PM</p> <p>11 A I was in school at UCI.</p> <p>12 Q Did you obtain a degree at UCI?</p> <p>13 A Yes, I did.</p> <p>14 Q What is your degree in?</p> <p>15 A I have a BS in computer engineering and 4:51PM</p> <p>16 electrical engineering.</p> <p>17 Q Do you have any other degrees?</p> <p>18 A No, I don't.</p> <p>19 Q No master's degrees or anything like that?</p> <p>20 A Correct. 4:51PM</p> <p>21 Q What is the date of your graduation?</p> <p>22 A End of 2004.</p> <p>23 Q You started at Google in 2010. What were</p> <p>24 you working on when you first started working at</p> <p>25 Google? 4:52PM</p> <p style="text-align: right;">Page 215</p> | <p>1 media apps at all? 4:53PM</p> <p>2 A No, I did not.</p> <p>3 Q So you didn't work on the Google Play</p> <p>4 Music app?</p> <p>5 A No. 4:54PM</p> <p>6 Q After you joined YouTube, did you work on</p> <p>7 the Google Play Music app at all?</p> <p>8 A No.</p> <p>9 Q Do you have Google devices at your home?</p> <p>10 A Yes, I do. 4:54PM</p> <p>11 Q Do you have any Chromecast devices?</p> <p>12 A Yes.</p> <p>13 Q What Chromecast device do you have at</p> <p>14 home?</p> <p>15 A I have Chromecast Ultra, Chromecast Google 4:54PM</p> <p>16 TV, probably the first generation Chromecast as well.</p> <p>17 A good number of Chromecast models for previous</p> <p>18 testing and development.</p> <p>19 Q What about any of the Nest or Home smart</p> <p>20 speakers, do you have any of those at home? 4:55PM</p> <p>21 A Yes, I do.</p> <p>22 Q Which ones do you have at home?</p> <p>23 A I have Nest Hub, Nest Hub Max, Nest WiFi.</p> <p>24 Do you want me to keep ongoing?</p> <p>25 Q Yes, let's talk about whatever you have at 4:55PM</p> <p style="text-align: right;">Page 217</p> |

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|--|---|
| <p>1 A I'm unaware. 5:11PM</p> <p>2 MR. BOYEA: Why don't we take maybe our</p> <p>3 last break and I'll look through my notes and see if</p> <p>4 there's anything else that I want to ask Mr. Mo.</p> <p>5 And we can jump back on. How about at 7:20 Central 5:12PM</p> <p>6 time?</p> <p>7 MR. KAPLAN: Okay.</p> <p>8 THE VIDEOGRAPHER: Off the record at</p> <p>9 5:12 p.m.</p> <p>10 (Recess taken.) 5:12PM</p> <p>11 THE VIDEOGRAPHER: We're back on the</p> <p>12 record at 5:22 p.m. Pacific time.</p> <p>13 BY MR. BOYEA:</p> <p>14 Q All right. Mr. Mo, just a few more</p> <p>15 questions for you. 5:22PM</p> <p>16 Can you open up Exhibit 6 again for me?</p> <p>17 A Okay.</p> <p>18 Q At the very bottom of Page 1 of this</p> <p>19 exhibit, you're going to see a sentence that says,</p> <p>20 "The Cast team are thinking." 5:22PM</p> <p>21 Do you see that?</p> <p>22 A I'm sorry, page what?</p> <p>23 Q The first page, the very bottom of the</p> <p>24 first page.</p> <p>25 A Okay. Yes, I see it. 5:22PM</p> <p style="text-align: right;">Page 226</p> | <p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 5:26PM</p> <p style="text-align: right;">Page 228</p> |
| <p>1 Q Can you read that paragraph that starts, 5:22PM</p> <p>2 "The Cast team are thinking," and let me know once</p> <p>3 you've read it.</p> <p>4 A Okay. I just read it.</p> <p>5 Q Do you know, is what's being discussed 5:23PM</p> <p>6 here with respect to eliminating the need for dial</p> <p>7 and cast, is that something that the cast team is</p> <p>8 currently working on?</p> <p>9 A I don't know if it's currently -- I don't</p> <p>10 know what they are currently working on. 5:23PM</p> <p>11 Q To your knowledge, is this relayed casting</p> <p>12 feature that's referred to in this paragraph, is</p> <p>13 that implemented in any way currently?</p> <p>14 A From my recollection, I believe that it's</p> <p>15 supported at least in some cases. I don't know what 5:23PM</p> <p>16 the some cases are.</p> <p>17 Q Do you know, is that a feature that is</p> <p>18 used by the general public today when using casting?</p> <p>19 A I actually don't know.</p> <p>20 MR. KAPLAN: Object to form on that. 5:24PM</p> <p>21 BY MR. BOYEA:</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 A No, I'm not aware. 5:24PM</p> <p style="text-align: right;">Page 227</p> | <p>1 [REDACTED]</p> <p>2 [REDACTED]</p> <p>3 [REDACTED]</p> <p>4 [REDACTED]</p> <p>5 [REDACTED]</p> <p>6 [REDACTED]</p> <p>7 [REDACTED]</p> <p>8 [REDACTED]</p> <p>9 [REDACTED]</p> <p>10 [REDACTED]</p> <p>11 [REDACTED]</p> <p>12 [REDACTED]</p> <p>13 [REDACTED]</p> <p>14 [REDACTED]</p> <p>15 [REDACTED]</p> <p>16 [REDACTED]</p> <p>17 [REDACTED]</p> <p>18 [REDACTED]</p> <p>19 [REDACTED]</p> <p>20 [REDACTED]</p> <p>21 [REDACTED]</p> <p>22 [REDACTED]</p> <p>23 [REDACTED]</p> <p>24 [REDACTED]</p> <p>25 [REDACTED] 5:28PM</p> <p style="text-align: right;">Page 229</p> |

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